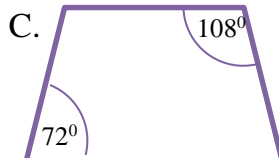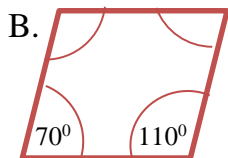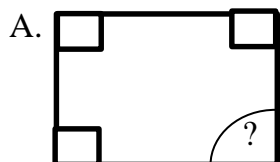# tutorified

## 5.G.B.4 Classification and Properties of Quadrilaterals – II

5.G.B.4: Classify two-dimensional figures in a hierarchy based on properties.

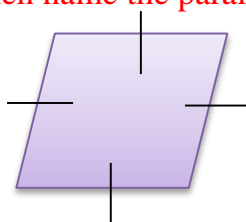1. Solve for the unknown angle of the following quadrilaterals.

A.   B.  $70^0$ $110^0$  C.  $108^0$ $72^0$

Solution:
   A. _____
   B. _____
   C. _____

2. Label the following quadrilaterals. Then name the parallel and perpendicular sides.



         A.                    B.                    C.

Solution:
   A. _____
   B. _____
   C. _____

3. Draw a parallelogram that is both a square and a rhombus. Then name and explain your drawing.

Solution:

4. Name the quadrilateral that has two pairs of parallel and congruent sides with all angles are $90^0$.

Solution:

5. Explain the similarity and difference between square and rectangle.

Similarity:

Difference:

6. Of the three quadrilaterals, which figure is different from the other two? Explain.
   a. Rhombus        b. Rectangle        c. Square

Solution:

7. Identify the figure below if it is quadrilateral, parallelogram, square or rhombus.



Solution:

# tutorified

## 5.G.B.4 Classification and Properties of Quadrilaterals – II

Answer Key

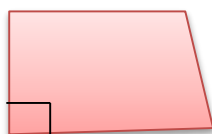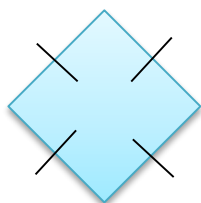5.G.B.4: Classify two-dimensional figures in a hierarchy based on properties.

1.
    a. $90^0$
    b. $110^0$; $70^0$
    c. $108^0$; $72^0$

2.  A. Rhombus        B. Quadrilateral      C. Rhombus

3.  Square; Square is a rhombus

4.  Rectangle

5.  Similarity: Both square and rectangle have all angles equal to $90^0$.
    Difference: All sides of square are equal while the rectangle have two opposite sides that are congruent.

6.  Rhombus: all angles of rhombus is not $90^0$.

7.  Quadrilateral, Parallelogram, Square, Rhombus